

## CLAIMS

1. An implantable medical tissue stimulating device comprising:
  - (a) an electronic pulse generator contained in a first hermetically sealed, body fluid impervious housing member;
  - (b) a battery power supply contained in a second hermetically sealed, body fluid impervious housing member; and
  - (c) means for releasably coupling the first and second housing members to one another.
2. The implantable medical tissue stimulating device as in claim 1 wherein the means for releasably coupling includes an electrical connector whereby an electrical current from the battery power supply flows to the pulse generator when the first and second housing members are coupled to one another.
3. The implantable medical tissue stimulating device as in claim 1 wherein the first and second housing members are formed from a metal.
4. The implantable medical tissue stimulating device as in claim 1 wherein the first and second housing members are formed from titanium.
5. The implantable medical tissue stimulating device as in claim 1 wherein one of the first and second housing members has a threaded female socket and the other of the first and second housing members includes a threaded male projection adapted to mate with the threaded female socket.
6. The implantable medical tissue stimulating device as in claim 5 and further including a fluid impervious seal disposed between the male projection and the female socket.

7. The implantable medical tissue stimulating device as in claim 2 wherein the means for removably coupling includes a fluid impervious seal for preventing body fluids from reaching the electrical connector.